

Exhibit 48

ADVANCED CARDIOVASCULAR SYSTEMS
EXTRUSION DATA SHEET

START TIME: EXTRUSION #: 10-605-1 AMOUNT (FEET): 2000
FINISH TIME: DATE: 6-20-94 SIGNATURE/DATE: [Signature] 6-20-94

MATERIALS : MATERIAL DESC. LOT# : RM#

PEEK VICTREX RED RED

EXTRUDER 10
REQUESTOR S SCHAIBLE (Eric heppel) PROCESS PERSON T.TOMAS
PRODUCT SHAFT (1011) SA#
SET-UP PARAMETERS:

MANDREL LGTH (EXT ONLY) FLUSH EXPERIMENTAL Y
DIE I.D. .199 OVAL N ROUND Y PRODUCTION N
MANDREL O.D. .166 XHEAD Y STRAIGHT N
SCREW TYPE PE 4770-3
SCREEN TYPE 20 80 20
START ID/OD .028/.034
FINISH ID/OD .028/.034

PROCESS PARAMETERS

TEMPERATURE SETPOINTS				SPEEDS & SETPOINTS		PSI & AIR		
ZONE 1	565.0	MELT	779	0.0	SCREW RPM	2.0	HEAD PSI	18.0
ZONE 2	650.0	DIE	1	32.0	PSI SET	770.0	DIE PSI	-500.0
ZONE 3	715.0	DIE	2	0.0	EXTR. AMP	12.0	AIR PSI 1	0.2
CLAMP	715.0	DIE	3	715.0	PUL SPEED	53.65.0	2	0.4
INLET	715.0	W/B TEMP	0.0	W/B DIST.	O WATER		3	0.3
G/PUMP	0.0						4	0.4
PMP OUT	342.0							
XHEAD	0.0							
MATERIAL DRYING TMP. 320 DEWPOINT - 67 # OF HRS DRYING 72 hrs								

ACTUAL PARAMETER COLLECTED EVERY 10 MINUTES

SETPOINT	ACTUAL 6	ACTUAL 7	ACTUAL 8	ACTUAL 9	ACTUAL 10
G/PUMP PSI	787	1084	273	175	0
PUMP AMP	0	0	0	0	0
SCREW RPM	2	8	24	24	0
EXTRUDER AMP	13	8	7	7	0
PULLER SPEED					
BARREL 1	799	1046	173	56	19
BARREL 2	0	0	0	0	0
BARREL 3	0	0	0	0	0
HEAD PSI	787	1084	273	175	0
TUBING O.D.	0.0000	0.0000	0.0000	0.0000	0.0000
AVG.DIA.	0.0000	0.0000	0.0000	0.0000	0.0000
AVG.STD.DEV.	0.0000	0.0000	0.0000	0.0000	0.0000

ADVANCED CARDIOVASCULAR SYSTEMS
EXTRUSION DATA SHEET

START TIME:
FINISH TIME:

EXTRUSION #: 10-604-1 AMOUNT (FEET): 1,000
DATE: 6-20-94 SIGNATURE/DATE *[Signature]* 6-20-94

MATERIALS : MATERIAL DESC. LOT# : RM#

PEEK VICTREX *RED* -----

EXTRUDER 10 PROCESS PERSON T.TOMAS
REQUESTOR S SCHAIBLE
PRODUCT SHAFT SA#
SET-UP PARAMETERS:

MANDREL LGTH (EXT ONLY) FLUSH EXPERIMENTAL Y
DIE I.D. .199 OVAL N ROUND Y PRODUCTION N
MANDREL O.D. .166 XHEAD Y STRAIGHT N
SCREW TYPE *PE 4770-3*
SCREEN TYPE 20 80 20
START ID/OD .032/.038
FINISH ID/OD .032/.038

PROCESS PARAMETERS

TEMPERATURE SETPOINTS				SPEEDS & SETPOINTS		PSI & AIR	
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ZONE 1	565.0	MELT	779	SCREW RPM	2.2	HEAD PSI	774.0
ZONE 2	650.0	DIE	1 32.0	PSI SET	777.0	DIE PSI	773.0
ZONE 3	715.0	DIE	2 0.0	EXTR. AMP	12.2	AIR PSI 1	0.2
CLAMP	715.0	DIE	3 715.0	PUL SPEED	53	2	0.3
INLET	715.0	W/B TEMP	0.0	W/B DIST. O WATER		3	0.3
G/PUMP	0.0					4	0.4
PMP OUT	565.0						
XHEAD	0.0						
MATERIAL DRYING TMP. 300				DEWPOINT -67		# OF HRS DRYING 72 hrs	

ACTUAL PARAMETER COLLECTED EVERY 10 MINUTES

SETPOINT	ACTUAL 1	ACTUAL 2	ACTUAL 3	ACTUAL 4	ACTUAL 5
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G/PUMP PSI	856	814	839	776	773
PUMP AMP	0	0	0	0	0
SCREW RPM	2	2	2	2	2
EXTRUDER AMP	12	12	11	12	11
PULLER SPEED					
BARREL 1	883	890	853	785	799
BARREL 2	0	0	0	0	0
BARREL 3	0	0	0	0	0
HEAD PSI	856	814	839	776	773
TUBING O.D.	0.0000	0.0000	0.0000	0.0000	0.0000
AVG.DIA.	0.0000	0.0000	0.0000	0.0000	0.0000
AVG.STD.DEV.	0.0000	0.0000	0.0000	0.0000	0.0000